IN THE CLAIMS:

Claims 2, 3, 8, 9, 13, 15, 18 - 20, 24, and 27 - 29 have been cancelled. Claims 1, 7, 14, 16, 23, 25, and 30 - 31 have been amended.

1. (currently amended) A remote virtual network interface, comprising:

an Ethernet receiving element connected to and in communication with an Ethernet [[node]] switch;

an Ethernet transmitting element connected to and in communication with the Ethernet [[node]] switch;

an InfiniBand receiving element to receive a data packet from a first InfiniBand node, wherein the data packet includes a destination ~~indicator~~ media access control (MAC) address;

a detector to read the destination ~~indicator~~ MAC address and to compare the destination indicator to a ~~known value~~ range of MAC addresses to determine where to transmit the data packet; [[and]]

a routing element to deliver the data packet from the ~~InfiniBand receiving element to~~ the detector to an InfiniBand transmitting element, wherein the InfiniBand transmitting element transmits the data packet ~~from the first InfiniBand node~~ to a second InfiniBand node if the destination MAC address is within the range of MAC addresses; and

an Ethernet transmitting element to deliver the data packet from the detector to the Ethernet switch if the destination MAC address is not within the range of MAC addresses.

Claims 2 and 3 (cancelled).

4. (original) The remote virtual network interface according to claim 1, wherein the detector and the routing element are within a single device.

5. (original) The remote virtual network interface according to claim 1, wherein the remote virtual network interface is virtualized by implementing microcode in a network processor.

6. (original) The remote virtual network interface according to claim 1, wherein the remote virtual network interface is virtualized by implementing microcode in a set of integrated circuits.

7. (currently amended) A network system, comprising:

an Ethernet node ~~to receive a first data packet from a remote virtual network interface~~;

an Ethernet switch ~~to select the Ethernet node to receive a second data packet~~;

a first InfiniBand node to transmit a data packet ~~to the remote virtual network interface~~, wherein the data packet includes a destination ~~indicator~~ media access control (MAC) address; and

an InfiniBand switch to ~~select a second InfiniBand node to receive the data packet from the first InfiniBand node, wherein the remote virtual network interface includes~~ receive the data packet from the first Infiniband node and to transmit the data packet; and

a remote virtual network interface, the remote virtual network interface including

an Ethernet receiving element ~~in communication with~~ connected to the Ethernet [[node]] switch,

an Ethernet transmitting element ~~in communication with the~~ connected to the Ethernet [[node]] switch,

an InfiniBand receiving element to receive the data packet from the first InfiniBand [[node]] switch,

a detector to read the destination ~~indicator~~ MAC address of the data packet and to compare the destination indicator to a ~~known value~~ range of MAC addresses,

a routing element to receive the data packet from the detector and to ~~deliver~~ transmit the data packet ~~from the first InfiniBand node to the second InfiniBand node~~, and

an InfiniBand transmitting element to receive the data packet and to transmit the data packet ~~from the first InfiniBand node~~ to the second InfiniBand node.

Claims 8 and 9 (cancelled).

10. (previously presented) The network system according to claim 7, wherein the detector and the routing element are within a single device.

11. (previously presented) The network system according to claim 7, wherein the remote virtual network interface is virtualized by implementing microcode in a network processor.

12. (previously presented) The network system according to claim 7, wherein the remote virtual network interface is virtualized by implementing microcode in a set of integrated circuits.

Claim 13 (cancelled)

14. (currently amended) A method of routing a data packet ~~from a first InfiniBand node to a second InfiniBand node~~, comprising:

~~providing Ethernet connectivity to the first InfiniBand node and to the second InfiniBand node;~~

receiving a data packet from [[the]] a first InfiniBand node, at a remote virtual network interface device connected to an Infiniband switch and an Ethernet switch, wherein the data packet includes a destination ~~indicator~~ media access control (MAC) address;

reading the destination ~~indicator~~ MAC address;

comparing the destination MAC address to a range of MAC addresses;

~~indicating by the destination indicator that the data packet is to be delivered to the second InfiniBand node; and~~

~~delivering~~ transferring the data packet to [[the]] a second InfiniBand node if the destination address of the data packet is within the range of the MAC addresses; and

delivering the data packet to the Ethernet switch if the destination address of the data packet is not within the range of the MAC addresses.

Claim 15 (cancelled).

16. (currently amended) The method according to claim 14, wherein the reading of the destination ~~indicator~~ MAC address and the comparing of the destination MAC address is performed by a detector.

17. (original) The method according to claim 14, wherein the delivering of the data packet to the second InfiniBand node is performed by a routing element.

Claims 18 - 20 (cancelled).

21. (previously presented) The method according to claim 14, wherein the method further includes virtualizing the remote virtual network interface by implementing microcode in a network processor.

22. (previously presented) The method according to claim 14, wherein the method further includes virtualizing the remote virtual network interface by implementing microcode in a set of integrated circuits.

23. (currently amended) A program code storage device, comprising:

a machine-readable storage medium; and

machine-readable program code, stored on the machine-readable storage medium, the machine-readable program code having instructions, which when executed cause a computing device to

~~provide Ethernet connectivity to a first InfiniBand node and to a second InfiniBand node,~~

receive a data packet from [[the]] a first InfiniBand node, at a remote virtual network interface device connected to an Infiniband switch and an Ethernet switch, wherein the data packet includes a destination ~~indicator~~ media access control (MAC) address;[[,]]

read the destination ~~indicator~~ MAC address[[,]] ;

compare the destination MAC address to a range of MAC addresses;

~~indicate by the destination indicator that the data packet is to be delivered to the second InfiniBand node, and~~

~~deliver~~ transfer the data packet to [[the]] a second InfiniBand node if the destination address of the data packet is within the range of the MAC addresses; and

deliver the data packet to the Ethernet switch if the destination address of the data packet is not within the range of the MAC addresses..

Claim 24 (cancelled).

25. (currently amended) The program code storage device according to claim 23, wherein a detector reads the destination ~~indicator~~ MAC address.

26. (previously presented) The program code storage device according to claim 23, wherein a routing element delivers the data packet to the second InfiniBand node.

Claims 27 - 29 (cancelled)

30. (currently amended) The program code storage device according to claim [[24]] 23, wherein the remote virtual network interface is virtualized by implementing microcode in a network processor.

31. (currently amended) The program code storage device according to claim [[24]] 23, wherein the remote virtual network interface is virtualized by implementing microcode in a set of integrated circuits.